



DARRANG COLLEGE CHRONICLE

A Newsletter of the College, VOL. 1, ISSUE-4, October-December 2022



Words from the Principal.....

Dr. Palashmani Saikia

Dear Darrangians,

It's indeed a great pleasure for me to hand over the 4th issue of Darrang College Chronicle to our family members. It is our sincere effort in highlighting the achievements, the success stories, social commitments and leadership of the Darrangians through the pages of DCC. I offer my sincere thanks to the entire editorial team for their dedicated effort. Best wishes to all.

Thanks

From Editorial Board:

Dear Esteemed Members, Darrang College Family!

At this moment, we are very much delighted to hand over the 4th issue of Darrang College Chronicle (DCC) to you all. This issue brings the News of various activities and achievements performed by the Faculty members and Students of the College from October to December, 2022.

Anticipating many more Academic, Research, Extension and relevant achievements from each and every family members of Darrang College in days to come, for enrich the pages of DCC.

With best regards

Dr. Akhil Baruah
Editor-in-Chief, DCC.

Top Head Lines.....

- Darrang College glitters at the 'Youth Festival' held at Gauhati University during 27-31 October, 2022.
- A total of 14 Research papers, 5 Book Chapters and 2 books credited to the faculty members during the 4th quarter of the year 2022.
- Four National Patents granted.
- Two collaborative projects of 'DBT-ALSBT Hub (Assam) Micro-grants to Young Scientists of NER for Innovative Research' received/granted.
- DST-SERB sponsored National Seminar organized by P.G. Department of Zoology in collaboration with Zoological Society of Assam & IQAC of the college.
- Darrang College celebrated the 400th birth anniversary of Lachit Borphukan.
- MoUs signed by Darrang College. (One with National Institute of Electronics and Information Technology, Tezpur for soft skill development for the students and faculties of the College; Others with Debraj College, Golaghat & LGB Girls' College, Tezpur for Faculty Exchange, Students Exchange and other Academic understandings.)



দৰং মহাবিদ্যালয়ৰ অধ্যক্ষৰ সৈতে গুৱাহাটী বিশ্ববিদ্যালয়ৰ আন্তঃ মহাবিদ্যালয় যুৱ মহোৎসৱ
(২৭-৩১ অক্টোবৰ, ২০২২)ত অংশ গ্ৰহণ কৰা / স্থানপ্ৰাপ্ত ছাত্ৰ-ছাত্ৰীসকল।



On October 11, 2022, the honorable MP of Tezpur LAC, Sjt. Pallab Luchan Das visited the college and interacted with the teachers, students, and authorities.



MoU signed on 24 December, 2022 with National Institute of Electronics and Information Technology, Tezpur for soft skill developments such as Basics of computer and Automation, Basics of web technology etc for the students and faculties of the college.



Anti-Tobacco Training and Awareness Meeting organized by IQAC and DCSU in collaboration with District Tobacco Control Cell, Sonitpur at Darrang College, Tezpur on 14 November 2022.



Darrang College NSS Team observed Children's Day, 2022 at Bahbari Deka Chuburi Primary School.



Darrang College celebrated the 400th birth anniversary of Lachit Borphukan on 24 November, 2022.



MoU signed with Debraj College, Golaghat on 27 November, 2022 for Faculty Exchange, Students Exchange and other academic understandings.



MoU signed with LGB Girls' College, Tezpur on 21 December, 2022 for Faculty Exchange, Students Exchange and other academic understandings.



The Department of English has started an extension activity with 'Chandmari Primary School, Tezpur, on December 20, 2022. Several activities, like interacting with the students, singing, dancing, and story-writing, were performed during the program to encourage them. This has initiated a long-term association between the department and the school.



The Department of Philosophy, in coordination with the Philosophical Society of Darrang College, organized an inter-college essay writing competition on the topic 'Role of Philosophy in Day-to-Day Life' on the occasion of World Philosophy Day on November 17, 2022.



MoU signed between the Department of Bengali, Darrang College, Tezpur and Tezpur Bengali Boys H. S. School on 28th Nov, 2022, an initiative of the Department of Bengali for a period of five years for up gradation of Teaching and Learning Environment.



An Advanced Lab Visit was organised on 1 December, 2022 to Dept. of Biotechnology, Gauhati University for the students of 1st Semester Biotechnology, Darrang College.



An Educational visit was organized on 1 December, 2022 to the Dept. of Food Technology, and Molecular Biology and Biotechnology, TU, for the students of 5th Semester Biotechnology, Darrang College.



The Department of Commerce conducted an Industrial visit for B. Com. 3rd Semester Students to 'Nebisco Industries Pvt. Ltd.' on 31 October, 2022.



The Department of Political Science in collaboration with IQAC, Darrang College organized 'International Human Rights Day 2022'. Prof. R. C. Borpatragohain, Advocate General of Assam and Sadique Ahmed, Advocate, Gauhati High Court delivered their talks on Intellectual Property Rights.



The Department of Statistics in collaboration with IQAC, Darrang College organized a Popular Talk on 'Probability Distributions & Introduction to SPSS & R' on 20 December, 2022. Talk delivered by Dr. Subrata Chakraborty, HoD Statistics, Dibrugarh University and Dr. Manash Pratim Barman, Professor, Dibrugarh University.



The Department of Zoology in collaboration with Zoological Society of Assam & IQAC-Darrang College, Tezpur successfully organized the DST-SERB Sponsored National Seminar on "Recent Advances in Biological Sciences: Biodiversity & Human Welfare" from 18th to 19th November, 2022 at Darrang College, Tezpur.



Inauguration of the Souvenir published in connection with the National Seminar by Distinguished Dignitaries of Honor on 18th November, 2022.



Honorable Deputy Commissioner of Sonitpur District Mr. Deba Kumar Mishra delivering his speech during the inaugural session of the National Seminar on 18th November, 2022.



FACULTYS' ACHIEVEMENTS

A. REASERCH PAPER:

Abdulla-Al-Asif, A. Hossain, **Chittaranjan Baruah**, A. Hena M. Kamal, D.K. Sharma, H. Hamli & F. U. Zaman. 2022. A ray of hope in the darkness: What we have learned from Yangtze giant soft-shell turtle *Rafetus swinhoei* (Gray, 1873) conservation? *Asian J. Conservation Biology*. 11(2): 167-168.

Abhijit Das & S.P. Biswas. 2022. Certain geomorphological features and fish fauna of river Mara Bharali in Sonitpur district of Assam. *Agricultural Science Digest*. DOI: 10.18805/ag.D-5560. 42(6): 774-779.

Akhil Baruah. 2022. An overview on Taxonomic diversity & active components of Cinnamon sources of N.E. India with special reference to multiplication technology of a promising source. *Indian Perfumer*. 66 (4) : 27 - 39.

Dipanjali Devi, R. Gogoi & K. Tayung. 2022. GC-MS and FTIR analysis of endolichenic fungus *Penicillium* sp. isolated from *Cryptothecia striata* of Arunachal Pradesh. *International J. food & nutritional science, Special issue 3*: 628-636.

Juli Bairagi, P. J. Saikia, F. Boro & A. Hazarika. 2022. Fertility regulatory potential of *Persicaria hydropiper* (L.) Delarbre methanolic root extract in female albino mice: An insight into the phytochemicals present and role of the extract in contraception. *Saudi Pharmaceutical J.* <https://doi.org/10.1016/j.jsps.2022.09.005>. 30: 1623-1638.

N. Goswami and **Sofica Ahmed**. 2022. Girls' Education in Madrasa: Narratives on the Dress, Conduct and Future Aspirations. *The Heritage*. 13(2): 00-00.

Rabindra Hazarika. 2022. Use of Aquatic Insects to assess the Biological Status of a Perennial pond in Assam, Northeast India. *Indian J. Entomology*. DOI: 10.55446/IJE.2022.794. 00(0): 00-00.

Research Papers published in Northeast J. Contemporary Research, 9 (1), 2022. (A Multidisciplinary Journal, Darrang College):

Palash Moni Saikia. NEP 2020: Conceptualizing and Rejuvenating Academic Research in Higher Education. iii-iv.

Debashree Saikia. Mutational analysis of severe acute respiratory syndrome coronavirus 2 spike (S) protein. 1-7.

Devdutta Kakati. Cowries and Forest Resources: Commercial and Cultural Transactions in Northeast India and Beyond (c. 5-13th centuries CE). 93-98.

Dipanjali Devi. Diversity of endolichenic fungi associated with three lichens of Assam. 16-24.

D. Mahanta & **Uttam K. Baruah**. Factors affecting marketing by social media influencer: A discussion on extensive literature. 61-67.

Juli Bairagi, P. Mili & A. Hazarika. Exploration of Traditional Medicinal Plants Used by the Mishing Community of Sonitpur, Assam for the management of Dysmenorrhea. 8-15.

Rajashree Bordoloi. Physiological changes induced by Salicylic Acid and Putrescine and their impact on drought tolerance in Lentil (*Lens culinaris*). 31-38.

B. BOOK PUBLISHED:

Akhil Baruah & Ashish Kar. 2022. A Textbook of Medicinal Botany. Ashok Publications, Guwahati. ISBN 978-93-93610-66-9.

Akhil Baruah & Tanqueswar Nath. 2022. Textbook of Bio-fertilizers. Kalyani Publishers, Ludhiana, New Delhi, Noida (U.P.), Hyderabad, Chennai, Kolkata, Cuttack, Guwahati, Kochi, Bengaluru. ISBN 978-93-5540-319-3.

C. BOOK CHAPTER:

Chittaranjan Baruah, Bhabesh Deka & Saurov Mahanta. 2022. A Review of recent Advances in Translational Bioinformatics and Systems Biomedicine. *In Dutta S., Gochhait S. (eds) Information Retrieval in Bioinformatics*. Palgrave Macmillan, Singapore. https://doi.org/10.1007/978-981-19-6506-7_3 (Springer Nature) ISBN: 978-981-19-6506-7. Pp. 37-62.

Devdutta Kakati. 2022. The Harṣacarita and Two Contemporary Eulogies in Epigraphic Texts: Reflections on the Polity of Kāmarūpa during the Reign of Bhāskaravarman,' *In Angermeier, Vitus et al. (eds.), Puṣpikā-Tracing Ancient India Through Texts and Traditions: Contributions to Current Research in Indology, Proceedings of the 12th International Indology Graduate Research Symposium (Vienna, 2021), Vol. 6, Heidelberg: Heidelberg Asian Studies Publishing, DOI: <https://doi.org/10.11588/hasp.1133.c15532>. pp. 153-178.*

Laba Handique, Subrata Chakraborty & M Masoom Ali. 2022. The Topp-Leone-G Power Series Distribution: Its Properties and Applications. *In Recent Advances in G Families of Probability Distributions Theory and Practices*. CRC Press Taylor & Francis Group. ISBN No: 9781032140650. Pp. 132-143.

Nanda Nath. 2022. Dangar Patabhumite Samaresh Basur Duti Chuto Golpo: Manabatar Sandhane. *In D. K. Doley et. al. (eds) Protecting Human Rights, Emerging Issues & Challenges*. Sarv Bhasha Prakashan, New Delhi. ISBN No 978-93-952913-1-6. Pp. 00-00.

R. Katakai, M.M. Phukan, D. Kalita, P. P. Pankaj, J. Saha, **Pranjal Pratim Das**, P. Bora, N. Hazarika, S. R. Sangma & M. Kumar. 2022. Next Generation Biosurfactant and their Practical Applications in Food Industries. *In Inamuddin & Charles Adetunji (eds) Applications of Next Generation Biosurfactants in the Food Sector*. Elsevier publication, ISBN: 9780128242834, Pp. 361-388.



FACULTYS' ACHIEVEMENTS

D. PATENTS GRANTED:

Dr. Manash Pratim Hazarika has been recently awarded four patents. The details of the patents (Title, Patent holders' name, Application No., Granted date and Number) are as follows.

A new class of nonanocellulose Hybrid nanocomposites for their antibacterial and Antifungal activities – A. M. Das, **Manash Protim Hazarika**, D. Baruah, B. S. Bhau, P. Deka Bhuyan, B. Baruah. 201611009445. 22-08-2022. 404022.

A method for the isolation of vanillin from rice straw – A. M. Das, A. A. Ali, Donwar, T. C. Bora, **Manash Protim Hazarika**. 1879/DEL/2014. 09-09-2021. 376752.

A novel class of diosgenin acetate-isoxazole, process for preparation there of and their antifungal activity. – A. M. Das, **Manash Protim Hazarika**, P. Deka Bhuyan. 504/ DEL/ 2015 23-12-2020. 354346.

Steroid-chitosan ketimine nanoparticles for antibacterial and antifungal activity. – A. M. Das, A. A. Ali, P. K. Chowdhury, **Manash Protim Hazarika**, A. Yadav & P. Deka Bhuyan. 3867/DEL/2014. 19-10-2020. 349513

E. RESEARCH PROJECT GRANTED:

The following faculty members have received collaborative project of 'DBT-ALSBT Hub (Assam) Micro-grants to Young Scientists of NER for Innovative Research'

Dr. Chittaranjan Baruah: Project title: '16SrRNA-based metagenomic analysis of the skin and gut microbiome of healthy and diseased catfish, *Clarias batrachus* (L.)'. Amount: 8.44 lakhs.

Dr. Kishor Deka: Project title: Conservation of four medicinally important *Garcinia* species in Assam - Recovery and Capacity Building'. Amount: 5.69 lakhs.

F. RESEARCH PAPER PRESENTED:

The following faculty members/ students (**marked as bold letter**) were presented their Research papers in the DST-SERB sponsored National Seminar – "Recent Advances in Biological Sciences: Biodiversity & Human Welfare" organized by Department of Zoology in collaboration with Zoological Society of Assam & IQAC-Darrang College, Tezpur held on 18-19 November 2022 at Darrang College, Tezpur.

Abhijit Sonowal, Chiranjeev Bezbaruah, Aakrit Kashyap & Madhurya Das. Evaluation of plants of Kaliabor for Monkey antifeedent properties.

Bishajyoti Baruah & Nabanita Medhi. Ichthyofaunal Diversity and Geophysical changes in wetland resources: A case study on Botha Beel, Darrang district, Assam.

Bishajyoti Baruah & Nabanita Medhi. Ichthyofaunal Diversity and Geophysical changes in wetland resources: A case study on Botha Beel, Darrang district, Assam.

Bishal Kumar Singh & Nabanita Medhi. Effect of pesticides on tea garden workers of Manipur Tea Estate, Hailakandi, Assam.

Daijy Kalita & Binita Das. Earthworm Diversity used by the farmers in Vermicomposting in Udalguri District of Assam.

Debarati Roy & Nabanita Medhi. Effect of Aqueous Extracts of Tobacco Leaves (*Nicotianatabacum*) on Certain Organs and Hematological Indices of Albino Mice.

Debashree Saikia & Ashish K. Mukherjee. Snakebite and Traditional Medicinal Plants.

Dipakshi Phukan & Rabindra Hazarika. Pest of tea and their management: a study in tea gardens of Udalguri district, Assam, India.

Gayatri Deka & Sangita Baruah. Understanding Human-Elephant conflict at the fringe of Bornadi Khalingduar Forest Complex.

Gayatri Gogoi & **Manash Protim Hazarika**. Ultrasonic-assisted Green Synthesis of Copper Nanoparticle Impregnated on Fabricated Cellulose Nanofibers and their Bioevaluation.

Juli Bairagi, **Sreeja Dutta** & Ajit Hazarika. Assessment of the Physiological and Psychological Attributes of PCOS Patients of Western Asia.

Jupitara Das & Parag Deka. Length weight relationship and relative condition factors of *Lepidocephalicthys guntea* and *Macrognathus pancalus* of Garjan Beel of Assam.

Kanchan Prajapati & Chittaranjan Baruah. A study on Covid -19 related Behaviour and post covid symptoms in Sonitpur district of Assam.

Laba Handique. A New extension of Burr XII distribution: Its properties and real life applications with survival time data.

Manika Das Katak, Bharat Engleng & Akashi Gogoi. Bioremediation of oil contaminated soil by enhancing diverse soil-microflora using biochar.

Minakshee Sarmah & Manab Deka. Prospects of Non conventional Plant-based formulations of Probiotics.

Papari Devi, **Chittaranjan Baruah** & D.K. Sharma. Molecular characterization of mitochondrial and nuclear genes of freshwater eels of Northeast India.

Momi Das & **Susmita Devi**. Ichthyofaunal diversity of Dighalibeel and focus on economic development of Bagapani village, Sonitpur, Assam.

Palash Moni Saikia & **Pankaj Hazarika**. New Mononuclear and Dinuclear Peroxotungsten Complexes as Potent Inhibitors of Alkaline Phosphatase Activity.

Pankaj Das, Mridul Bordoloi & Chittaranjan Baruah. A study on status of fish disease in the semi-intensive culture system of Tezpur, Assam.

Rasinja Engtipi, Nayana Baruah & Rabindra Hazarika. The practice of entomophagy and entomotherapy among the tribes of Nalbari and Karbi Anglong District of Assam, India.

Rekha Kalita, Amrit Pegu & Chittaranjan Baruah. The role of probiotics in aquaculture with special reference to fish growth-promoting bacteria: A review.

FACULTYS' ACHIEVEMENTS

Sanjib Chetry, Manjit Kr. Bhattacharyya & Palashmoni Saikia. Syntheses, Crystal structures, Spectroscopic, Thermal characterization and Biological activates of Co (II), Zn (II) and Ni (II) compounds involving pyridine-2, 5-dicarboxylate and N- donor ligands.

Shreya Roy & Rabindra Hazarika. Mosquito-related knowledge, practices and behaviour of people in Nagaon District, Northeast India.

Sreya Dutta & Nabanita Medhi. Impact of Beekeeping on socio-economic status of farmers in Dhekiajuli, Assam.

Sumi Borah, Aysha Siddika, Rajashree Bordoloi & Abhijit Das. Studies on the impact of plant growth promoting rhizobacteria and salicylic acid on drought tolerance in *Pisum sativum* L.

G. General article published:

ড' অখিল বৰুৱা : অসমৰ ৰাজ্যিক বৃক্ষ - হোলোং। নতুন অৱিষ্কাৰ, অক্টোবৰ, ২০২২, যোৰহাট (মৌচাক প্ৰকাশন)।

Dr. Akhil Baruah. 2022. Botanical Identity and Medicinal values of some common Spices/Condiments. Taranga – A Souvenir of 30th State Level National Children's Science Congress 2022. Pp. 36-42.

Dr. Chittaranjan Baruah. 2022. Turtles and Tortoises of Assam. Ibid. Pp. 43-48.

Dr. Rabindra Hazarika. 2022. Wetlands: The Natures' kidney of Sonitpur Ibid.Pp.30-33

H. PH. D. AWARDED / TALK DELIVERED / OTHER ACHIEVEMENTS:

Sanjib Chetry, Dept. of Chemistry has been awarded the degree of Doctor of Philosophy by Gauhati University for his thesis entitled 'Synthesis, Structural Investigations and Properties of Coordination Solids involving Pyridine Dicarboxylate Ligands' on 31 October 2022.

Dr. Chittaranjan Baruah delivered a talk on 'How to write a research paper/proposal for International Journal/ Seminar' on 21st October. 20/10/22 organized by IQAC, Darrang College.

Dr. Konkana Deka delivered a talk on 'Jatir Babe 30 minit' at Govt. H. S. Girls', Tezpur on the occasion of the 400th birth anniversary of Lachit Borphukan on 11/11/2022.

Renusmita U Talukdar, Asstt. Prof. delivered a talk on 'Gender Sensitization' organized by IQAC Darrang College on 22nd Nov. 2022.

Harendra Nath Morang, Assoc. Prof. got the 3rd position in The All Assam Inter District Badminton Championship (50+ years above) event held at Tezpur on 10-12-2022.

Manshjoyoti Patgiri, Programme Officer, NSS and his team awarded with the Certificate of Appreciation for his valuable contribution during Covid-19 Vaccination Programme in Sonitpur District from 18-05-2021 to 02-09-2022.

STUDENTS' ACHIEVEMENTS

দৰং মহাবিদ্যালয়ে গুৱাহাটী বিশ্ববিদ্যালয়ৰ

আন্তঃ মহাবিদ্যালয় যুৱ মহোৎসৱত (২৭-৩১ অক্টোবৰ, ২০২২) লাভ কৰা পুৰস্কাৰৰ তালিকা

দলীয় শাখাত :

- ▶ সাংস্কৃতিক শোভাযাত্ৰা প্ৰতিযোগিতাত - শ্ৰেষ্ঠ দল ।
- ▶ সমবেত সংগীত প্ৰতিযোগিতাত - তৃতীয় শ্ৰেষ্ঠ দল ।
- ▶ কুইজ প্ৰতিযোগিতাত (ৰূপম বৰা, বিক্ৰমদীৰ ডেকা আৰু পৰাশৰ কলিতা) - তৃতীয় শ্ৰেষ্ঠ দল ।
- ▶ লোকসুৰ সমলয় (Folk Orchestra) প্ৰতিযোগিতাত - দ্বিতীয় শ্ৰেষ্ঠ দল ।

একক শাখাত :

- ▶ জয়ন্ত সংগীতৰ প্ৰতিযোগিতাত দ্বিতীয় পুৰস্কাৰ- শতাব্দী সুনয়না ।
- ▶ অসমীয়া সুগম সংগীতৰ প্ৰতিযোগিতাত দ্বিতীয় পুৰস্কাৰ - শতাব্দী সুনয়না ।
- ▶ পাৰ্বতী প্ৰসাদৰ গীতত তৃতীয় পুৰস্কাৰ - শতাব্দী সুনয়না ।
- ▶ ভূপেন্দ্ৰ সংগীতৰ প্ৰতিযোগিতাত তৃতীয় পুৰস্কাৰ- শতাব্দী সুনয়না ।
- ▶ তৰ্ক প্ৰতিযোগিতাত দ্বিতীয় শ্ৰেষ্ঠ তৰ্কিক - মনোজ কুমাৰ বৰুৱা ।
- ▶ Cartooning প্ৰতিযোগিতাত প্ৰথম পুৰস্কাৰ - উজ্জ্বল কলিতা ।
- ▶ Poster Making প্ৰতিযোগিতাত দ্বিতীয় পুৰস্কাৰ - উজ্জ্বল কলিতা ।
- ▶ ২০২১-২২ বৰ্ষৰ আন্তঃমহাবিদ্যালয় যুৱ মহোৎসৱৰ শ্ৰেষ্ঠ সুকুমাৰ কলা প্ৰতিযোগী- উজ্জ্বল কলিতা ।
- ▶ লোকগীতৰ প্ৰতিযোগিতাত দ্বিতীয় পুৰস্কাৰ - বৈশালী শইকীয়া ।

Kamal Boro, 3rd Semester, Deptt. of Commerce begged Bronze Medal in the National French Boxing Competition held at New Delhi during November, 2022.

Nitish Hazarika, 5th Semester, Deptt. of Biotechnology is being nominated by the State Organizing Committee, as an 'Escort Teacher' for the team of 26 Child Scientists from Assam, NCSC-2022, to be held at the Science City, Ahmedabad from 27-31 Jan. 2023.



গুৱাহাটী বিশ্ববিদ্যালয়ৰ আন্তঃ মহাবিদ্যালয় যুৱ মহোৎসৱ (২৭-৩১ অক্টোবৰ, ২০২২)ত দৰং মহাবিদ্যালয়ৰ ছাত্ৰ-ছাত্ৰীৰ সাংস্কৃতিক শোভাযাত্ৰা ।

Editorial Board: Darrang College Chronicle

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